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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/565,016	02/07/2006	Richard M. Jenkins	124-1145	5225	
23117	7590 08/18/2006		EXAMINER		
NIXON & VANDERHYE, PC			HELLNER	HELLNER, MARK	
901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203		LOOK	ART UNIT	PAPER NUMBER	
	,		3663		
			DATE MAILED: 08/18/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/565,016	JENKINS ET AL.			
Office Action	Summary	Examiner	Art Unit			
		Mark Hellner	3663			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICHEVER IS LONGER - Extensions of time may be available after SIX (6) MONTHS from the may a lift NO period for reply is specified at a Failure to reply within the set or extensions.	e under the provisions of 37 CFR 1.1 illing date of this communication. bove, the maximum statutory period ended period for reply will, by statute er than three months after the mailing	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply	be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status						
•	. 2b)⊠ This n is in condition for allowa	action is non-final.	, prosecution as to the merits is 1, 453 O.G. 213.			
Disposition of Claims						
4) ☐ Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-34 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) (1) Notice of References Cited (PT 2) Notice of Draftsperson's Patent 3) Information Disclosure Stateme Paper No(s)/Mail Date Orlfil 2	Drawing Review (PTO-948) ent(s) (PTO-1449 or PTO/SB/08)		mary (PTO-413) ail Date mal Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1, 2, 8, 9, 10, 12, 14-17, 20 and 24-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Hattori et al (JP 409021922 A).

Hattori et al disclose an optical circuit for an optical amplifier input stage comprising: a first waveguide (10) for carrying an input signal beam; a second waveguide (11) for carrying a pump beam; means (I and II) coupled to the first and second waveguides for combining the signal and pump beams; and means (12a) for coupling the combined beams into an amplifying waveguide, characterized in that the first and second waveguides are hollow core optical waveguides (line 3 of abstract).

The structure recited above reads on claim 1.

Claims 2 and 8 are taught by the waveguide manufacturing method shown by figure 1 and 3.

Claim 9 is taught by element (13).

Claim 10 is taught by element (12a).

Claim 12 is taught by element (15).

Claim 14 is taught by the structure applied to claim 1.

Claim 15 is taught by elements (13) and (14).

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Claims 16 and 17 are taught by the manufacturing process of figures 1 and 3.

Claim 20 is taught by element (15).

Claims 24-33 are taught by the method of manufacture shown by figures 1 and 3.

Claim 34 is taught by the abstract.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-7, 11, 13, 18, 19 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hattori et al.

The waveguide disclosed by Hattori et al defines an alignment slot, and as such, suggests claim 3.

A laser source (claims 4 and 18) would have been a conventional means for pumping the waveguide (13) of Hattori et al.

A fiber attachment (claims 5, 22 and 23) would have been suggested by the fact that the amplifier of Hattori et al was intended to be coupled to a communication line.

Isolators (claims 6 and 19), filters (claim 21) and variable attenuators (claim 7) were well known components of an amplifying waveguide and, as such, would have been suggested by the waveguide of Hattori et al.

It would have been obvious to have attached element (12a) to element (13) in view of the fact that they are shown connected in figure 2, thus producing claim 11.

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Detection of input signal light (claim 13) was used at the time of the present application to provide a control signal to the pumping laser and, as such, would have been a desired modification of Hattori et al.

Any inquiry concerning this communication should be directed to Mark Hellner at telephone number 571 272 6981.

Mark Hellner

Primary Examiner

AU 3663

Mark Hellin